

MARKED UP COPY OF CLAIMS

[Insertions underlined, Deletions bracketed]

43. (Amended) A method for determining if a substance inhibits TGF- β /Alk1 induced Smad1 [or Smad5] phosphorylation comprising contacting a first sample of cells that express an Alk1 and Smad1 [or Smad5] with said substance in the presence of TGF- β and determining if Smad1 [or Smad5] phosphorylation is inhibited, wherein a reduced level of phosphorylation in said first sample of cells contacted with said substance in the presence of TGF- β as compared to a control sample of cells is indicative of said substance inhibiting TGF- β /Alk-1 phosphorylation of Smad1[or Smad5].
47. (Amended) The method of claim 43, wherein said first sample of cells that express Alk-1 are transfected with a nucleic acid molecule which encodes a Smad1 [or a Smad-5].